

Name _____

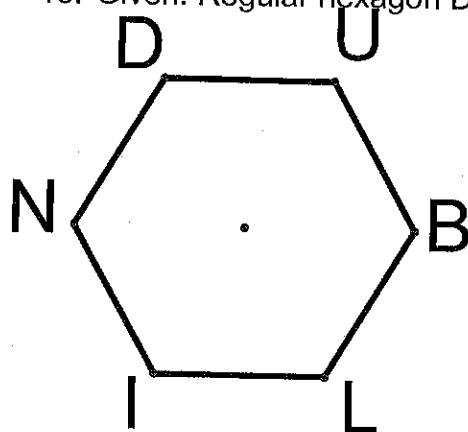
Date _____

Complete the charts using the special right triangle patterns.

	30°	60°	90°
1.	x		
2.	4		
3.		$7\sqrt{3}$	
4.			16
5.			$2\sqrt{5}$
6.		$\sqrt{30}$	

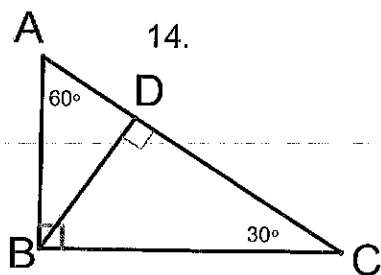
	45°	45°	90°
7.	x		
8.	3		
9.		5	
10.			$\sqrt{288}$
11.	$3\sqrt{3}$		
12.			$\sqrt{12}$

13. Given: Regular hexagon DUBLIN



UB = 10. Find UL.

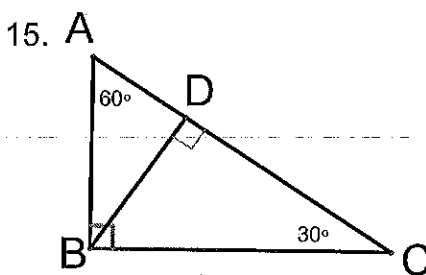
HINT: Draw UL, $m\angle B = 120^\circ$, what kind of triangle is $\triangle UBL$?



14.
 $BD = 6\sqrt{3}$

$AB = \underline{\hspace{2cm}}$

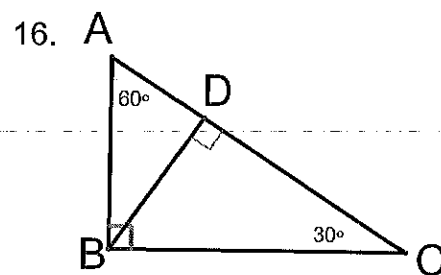
$BC = \underline{\hspace{2cm}}$



15.
 $BC = 9$

$DB = \underline{\hspace{2cm}}$

$AC = \underline{\hspace{2cm}}$



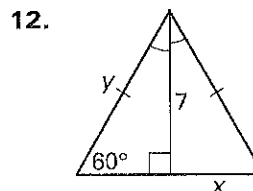
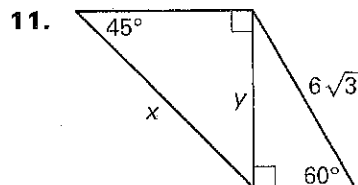
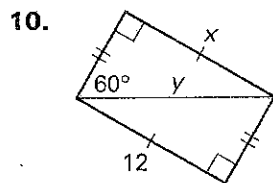
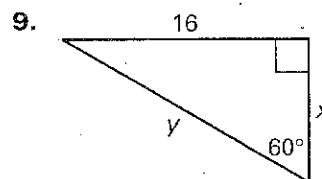
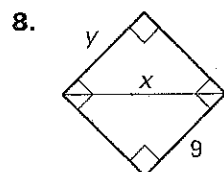
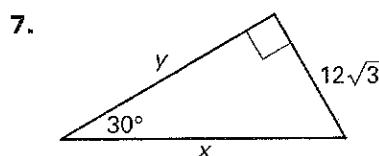
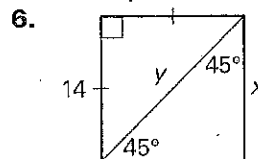
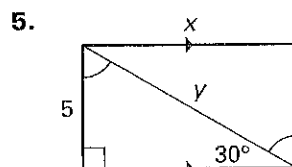
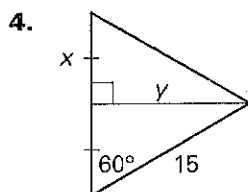
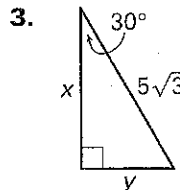
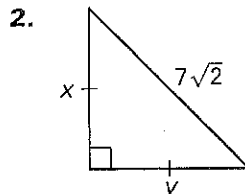
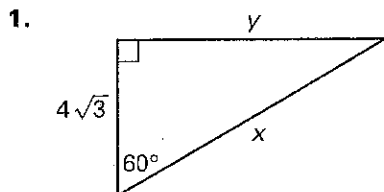
16.
 $CD = 12\sqrt{3}$

$AB = \underline{\hspace{2cm}}$

LESSON
7.4
Practice C

For use with pages 457–464

Find the value of each variable. Write your answers in simplest radical form.



13. **Multiple Choice** In the diagrams to the right, $a = \frac{4}{3}f$.

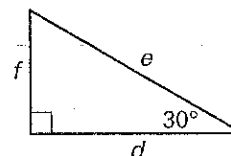
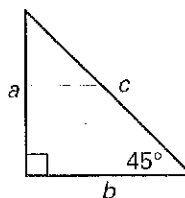
Which side length is the longest?

A. b

B. c

C. d

D. f



14. **Perimeter** The altitude of an equilateral triangle is 12 centimeters. Find the perimeter of the triangle. Round to the nearest tenth.